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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/216,004 12/17/98 CHAU

W 81862.P106

EXAMINER

WM01/0731

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BOAKYE, A

ART UNIT

PAPER NUMBER

2663

DATE MAILED:

07/31/01

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.  
09/216,004

Applicant(s)

Chau et al.

Examiner  
Alexander Boakye

Art Unit  
2663



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on May 8, 2001
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-23 and 25-44 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6, 12-16, 22, 23, and 35-39 is/are rejected.
- 7) ☒ Claim(s) 7-11, 17-21, 25-34, and 40-44 is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirements.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some\* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 2 20) ☐ Other: \_\_\_\_\_

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## DETAILED ACTION

### *Claim Rejections - 35 U.S.C. § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

2. Claims 1, 4, 6, 12, 15, 16 ,22, 23 and 39 are rejected under 35 U.S.C. 102(e) as being anticipated by Allran et al.(US Patent 5,625,845).

**Regarding claims 1, 4, 6, 12, 15 and 16**, the claimed digital signal processing (DSP) resource manager reads on DSP resource manager(block 455. Fig. 22).

**Regarding claims 22, 23 , 39**, the claimed DSP plurality of digital signal processor(DSP) resources reads on N digital signal processors(column 26, lines 13-19). The claimed resource manager reads on DSP resource manager( block 455, Fig. 22).

### *Claim Rejections - 35 U.S.C. § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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4. Claims 2, 3, 5, 13, 14 and 36-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allran(US Patent 5,625,845) in view of Hsu( US Patent 6,104,721).

**Regarding claims 2, 13, 36,** Allran teaches digital signal processing system( see the abstract). Allran does not teach a carrier system. However, the use of a carrier system is well known in the art. The claimed carrier system reads on the line card is adapted to receive a plurality of T1 lines, each including 24 channels which may operate at 64 Kbps( column 5, lines 31-33). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Allran's DSP system with Hsu' DSP including carrier system with the motivation being to provide voice digitization in order for proper transmission of signals through the channels.

**Regarding claims 3 and 14, 37, 38,** the combination of Allran and Hsu discloses a system wherein the carrier system is comprises of T1 lines(column 5, lines 31-33 of Hsu).

**Regarding claim 5,** the combination of Allran and Hsu teaches a system wherein the channels comprise voice channels(column 5, lines 43-44 of Hsu).

***Allowable Subject Matter***

5. Claims 7-8, 10-11,17-21, 25-34 and 40-44 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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*Response to Arguments*


6. Applicant's arguments with respect to claims 1-34 have been considered but are moot in view of the new ground(s) of rejection.

*Conclusion*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (703) 308-9554. The examiner can normally be reached on M-F from 7:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen, can be reached on (703)308-5340. The **fax number** for the group is (703)872-9314. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305-3900.

*AB*  
A. Boakye  
7/27/01

  
MELVIN MARCELO  
PRIMARY EXAMINER